

Title (en)
EXTENSIBLE ROTATION TRANSMISSION SHAFT

Title (de)
ERWEITERBARE ROTATIONSKARDANWELLE

Title (fr)
ARBRE DE TRANSMISSION DE ROTATION EXTENSIBLE

Publication
EP 3101295 B1 20181003 (EN)

Application
EP 15814678 A 20150702

Priority
• JP 2014137845 A 20140703
• JP 2015069212 W 20150702

Abstract (en)
[origin: EP3101295A1] A rolling surface of each ball 11 and a radially outside surface of an inside guide plate 17 are in contact with each other only at two circumferentially set-apart inside contact parts 28a 28b, and portions of a radially inside surface of the inside guide plate 17, which correspond to the respective inside contact parts 28a, 28b, are supported by an outer surface of an inner-side concave groove 12a. The rolling surface of each ball 11 and a radially inside surface of the outside guide plate 18 are in contact with each other only at two circumferentially set-apart outside contact parts 36a, 36b, and portions of a radially outside surface of the outside guide plate 18, which correspond to the respective outside contact parts 36a, 36b, are supported by an inner surface of the outer-side concave groove 14a. At a state after the extensible rotation transmission shaft is assembled, at least the inner surface of the outer-side concave groove 14a is elastically deformed more radially outwards than a state before the assembling, thereby preloading each ball 11.

IPC 8 full level
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CPC (source: EP US)
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